

32. (Amended) The method of claim 30, wherein said matably connecting step (b) comprises soldering said first member to said second member using a second alloy having a lower melting temperature than a melting temperature of said first alloy.

C2 33. (Amended) The method of claim 32, wherein said connecting step (b) comprises heating said first member and said second member to a temperature at least as high as the melting temperature of the second alloy but lower than the melting temperature of the first alloy such that the first alloy does not melt during said connecting step (b).

34. (Amended) The method of claim 24, wherein said first member has at least one groove on an outer surface thereof, and wherein said method further comprises inserting a third alloy into said at least one groove such that said matably connecting step (b) comprises soldering said first member to said second member using said third alloy.

35. (Amended) The method of claim 34, wherein said matably connecting step (b) comprises inserting said first member flush into said second member prior to said soldering of said first member to said second member.

36. (Amended) The method of claim 35, wherein said method includes placing a ribbon alloy on an outer surface of said first member after said inserting of said third alloy into said at least one groove and prior to said inserting said first member into said second member, said ribbon alloy securing said first member to said second member as a result of said soldering of said first member to said second member.

37. (Amended) The method of claim 24, wherein said matably connecting step (b) comprises inserting said first member into said second member and soldering said first member to said second member.

C3 39. (Amended) The method of claim 37, wherein said method further comprises applying pressure that forces said first member into said second member during said soldering of said first member to said second member.

C4 41. (Amended) The method of claim 40, wherein said step of connecting said electrical conductor and said fluidic conductor to said electrical and fluidic connector comprises soldering said electrical conductor and said fluidic conductor to said electrical and fluidic connector.

42. (Amended) The method of claim 41, wherein said fluidic conductor and said electrical conductor comprise a single conductive pipe such that said step of connecting said electrical conductor and said fluidic conductor to said electrical and fluidic conductor comprises soldering said single conductive pipe to said electrical and fluidic connector.